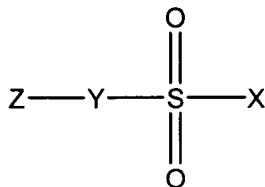


In the claims

1-33. **(canceled)**

34. **(currently amended)** A coating comprising an effective amount of an anti-fouling compound of structure 1:



1

wherein

X represents -OH;

Y represents O;

Z represents an unsubstituted or substituted moiety selected from the group consisting of branched alkyl, unbranched alkyl of 2-7 carbons, heteroalkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl, and $-(\text{CH}_2)_m\text{-R}_{80}$; wherein when Z is substituted, any substituent is selected from the group consisting of halo, azido, alkyl, aralkyl, alkynyl, cycloalkyl, alkoxyl, nitro, imino, amido, silyl, alkylthio, sulfonyl, sulfonamido, acyl, formyl, ~~alkoxy carbonyl~~, heterocyclyl, aryl, heteroaryl, and trifluoromethyl;

R_{80} represents independently for each occurrence aryl, cycloalkyl, cycloalkenyl, heterocyclyl, or polycyclyl; and

m is an integer in the range 0 to 8 inclusive or salt thereof,
wherein the coating releases the compound or a biologically active fragment thereof when in contact with a surface that is amenable to biofouling.

35. **(canceled)**

36. **(canceled)**

37. **(previously presented)** A coating of claim 34, wherein Z represents an unsubstituted or substituted branched alkyl, unbranched alkyl of 2-7 carbons, aryl, or $-(CH_2)_m-R_{80}$.

38. **(previously presented)** A coating of claim 34, wherein Z represents an unsubstituted or substituted alkylphenyl, heteroalkylphenyl, arylphenyl, or heteroarylphenyl.

39. **(previously presented)** A coating of claim 34 wherein Z represents methyl, 4-(2-methylpropyl)phenyl, 4-(1,1-dimethylethyl)phenyl, 4-(1,1-dimethylpropyl)phenyl, 4-pentylphenyl, 4-(1-methyl-1-phenylethyl)phenyl, or 4-(1-methylheptyl)phenyl.

40-114. **(canceled)**